

Appl. No. 10/669,112  
Atty. Docket No. CM2348C  
Amdt. dated July 20, 2004  
Reply to Office Action of April 28, 2004  
Customer No. 27752

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

1. (Currently amended) A ~~multiple-compartment~~ container for dispensing flowable products by gravity comprising ~~at least~~ a first compartment, a second compartment and a ~~multiple-dispensing~~ dispensing tap comprising ~~at least~~ a first and second inlet, a hollow body defining a first and second outlet and a first and second channel wherein the first compartment is linked to the first inlet and the second compartment is linked to the second inlet of the dispensing tap, said tap further comprising a valve system for controlling flowable product through the outlet and means for operating the valve system.
- 2-4. (Cancelled)
5. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 made from plastic.
6. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the ~~multiple-dispensing~~ tap is pressure operated.
7. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the container comprises a gripping means.
8. (Currently amended) A ~~dual-compartment~~ container according to Claim 7 wherein the gripping means is a handle or a surface of the container designed to facilitate gripping.
- 9-12. (Cancelled)
13. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the first and second compartments comprise ~~the same volume of~~ different flowable products which are preferably allowed to mix at the outlets.

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14. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the flowable products are dispensed from the first and second compartments substantially simultaneously.
15. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the flowable products are dispensed from each compartment at a constant volume ratio.
16. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the ratio of dispensing of the flowable product in the first compartment to the dispensing of the flowable product in the second compartment is 1:1 to 10:1.
17. (Currently amended) A ~~dual-compartment~~ container according to Claim 16 wherein the ratio is from 3:1 to 5:1.
18. (Currently amended) A ~~multiple-compartment~~ container according to Claim 1 wherein the flowable product in the first compartment is a conventional non bleach-containing detergent and the flowable product in the second compartment comprises a bleach.
19. (Previously presented) A dual compartment container for dispensing two or more flowable products by gravity at constant volume ratio, comprising a first compartment and a second compartment each comprising a flowable product A and B respectively, the compartments being designed to satisfy the equation

$$Q_A = \alpha Q_B$$

where,

$$Q_A = \frac{\pi R_A^3}{4\mu_A} \left[ \frac{\rho_A g R_A (H_A)}{2L_A} \right] \text{ and } Q_B = \frac{\pi R_B^3}{4\mu_B} \left[ \frac{\rho_B g R_B (H_B)}{2L_B} - \frac{4\tau_{oB}}{3} \right]$$

Product A is a Newtonian fluid and product B a Bingham fluid and wherein:

Q is the flow rate of products A and B respectively;

$\alpha$  is the volume ratio;

R is the radius of each tap channel;

L is the length of each tap channel;

H is the liquid head of A and B respectively in each compartment;

g is gravity;

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$\tau$  is yield stress; and,  
 $\mu$  is the viscosity.

20. (Previously presented) A dual compartment container according to Claim 19 wherein  $\alpha$  is from 1 to 10.
21. (Previously presented) A dual compartment container according to Claim 19 wherein  $\alpha$  is 4.
22. (Previously presented) A multiple-dispensing tap suitable for attachment to a container comprising a first and second inlet, a hollow body defining a first and second outlet, a valve system for controlling flowable product through the outlet, a means for operating the valve system, and the hollow body comprises at least two channels capable of substantially simultaneously dispensing two different flowable products.
23. (Previously presented) A dual dispensing tap according to Claim 22 wherein the valve system is pressure or rotationally operated.
24. (Previously presented) A multiple-dispensing tap according to Claim 22 that is a pressure operated tap.
25. (Previously presented) A multiple-dispensing tap according to Claim 22 wherein the valve system comprises a valve element and valve stem which connects the valve element to the means of operating the valve system.
26. (Previously presented) A multiple-dispensing tap according to Claim 22 wherein the means for operating the valve system is a push button made from a deformable diaphragm.
27. (Previously presented) A multiple-dispensing tap according to Claim 26 wherein the deformable diaphragm is bleach stable.
28. (Previously presented) A multiple-dispensing tap according to Claim 25 wherein the valve element is frustoconical.
29. (Previously presented) A multiple-dispensing tap according to Claim 25 wherein the valve element or outlet additionally comprises a seal.

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30. (Previously presented) A multiple-dispensing tap according to Claim 25 wherein the valve stem is capable of movement in a guide means mounted in the body.